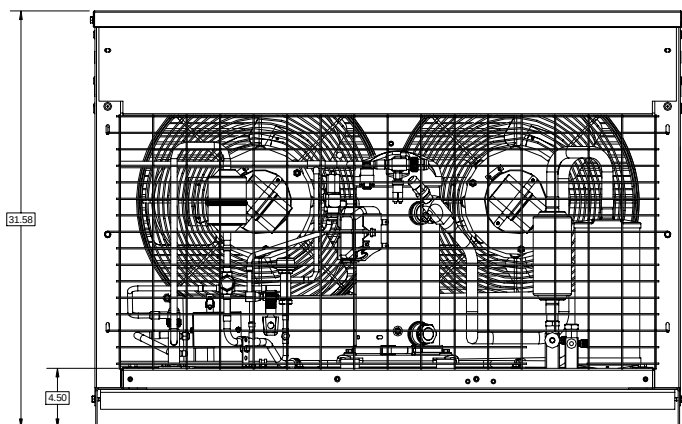
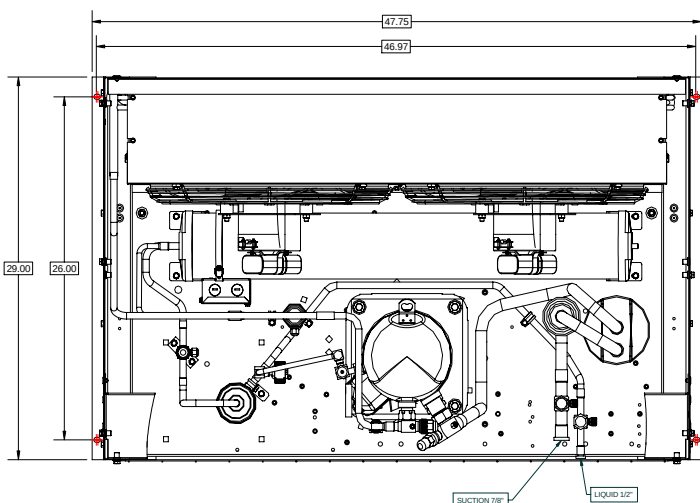
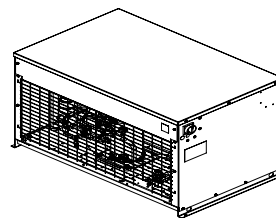




TECUMSEH HERMETIC CONDENSING UNIT

VSAG515ZXTHM
TPC preliminary
October 14, 2011

Model VSAG515ZXTHM
BOM 32L3642-2E
Air Cooled 3 ¾ HP
Application Low Temp
Refrigerant R404A



VSAG515ZXTHM	Dim. Endosure(inch)*			Line connections		Pumpdown	Air flow	Oil Ch.	Gross weight
	L	W	H	Suction	Liquid	90% @ 90°F	SCFM	Oz.	Lbs.
	29.40	47.75	31.58	7/8 Sweat	1/2 Sweat	33.44	4200	55	550

*) Endosure Mounting Holes, 26.25 x 58.5

Factory charge 20 psig dry air, **MUST BE EVACUATED**

Evaporator		Ambient Temperatures															
		85°F				95°F				100°F				110°F			
T, °F	PSIG	BTUH	Watts	Head	Cond T	BTUH	Watts	Head	Cond T	BTUH	Watts	Head	Cond T	BTUH	Watts	Head	Cond T
-40	5.5	7000	2880	212	93	6900	3090	243	102	6800	3220	261	107	6300	3520	299	117
-35	8.0	8100	2990	216	94	7800	3190	248	103	7700	3320	265	108	7000	3620	304	118
-30	10.7	9300	3090	220	95	8900	3290	252	105	8700	3420	269	109	7900	3710	308	119
-25	14.0	10700	3190	224	96	10100	3390	256	106	9800	3520	273	110	8900	3810	312	120
-20	17.1	12100	3290	228	98	11300	3490	259	107	11000	3610	277	111	10000	3900	316	121
-15	19.3	13600	3390	232	99	12700	3600	263	108	12300	3720	281	112	11100	4000	319	122
-10	24.5	15200	3500	236	100	14100	3700	268	109	13600	3820	285	113	12300	4100	323	123
-5	28.8	16700	3620	240	101	15500	3820	272	110	15000	3930	289	115	13500	4210	327	124
0	33.5	18300	3740	245	103	16900	3940	277	111	16300	4060	294	116	14800	4330	331	125
5	36.5	19900	3870	251	104	18400	4070	282	113	17700	4190	299	117	16000	4460	336	126
10	43.7	21400	4020	256	106	19700	4210	287	114	19000	4330	304	118	17200	4590	341	127

Performance @ 60 Hz, Return gas 40°F, SubCooling 5°F

PRELIMINARY PERFORMANCE DATA

Parts/Specifications

STANDARD

Unit BOM	32L3642-2E
Unit MODEL	VSAG515ZXTHM
Refrigeration RANGE	-40°F to 10°F
Design Pressure Low	181
Design Pressure High	450
Volts - HZ - Ph	200-230V 3~ 60HZ
Voltage Range	180 - 253
Min. Circuit Ampacity	16.49
Max. Fuse Size	25
Compressor MODEL	VSAG513ZXT
Compressor BOM	VS123RT-008-A4
Compressor LRA	80
Compressor RLA	9.98
OverLoad	INTERNAL
Relay	
Run Capacitor	
Run Capacitor Rating	
Start Capacitor	
Start Capacitor Rating	
Contactor	91014B
Unit Drawing	DGU1950-L303
Wiring no Fan controls	WD23-2XT2L

Fan Motor	810S186B40
Fan Motor Qty	2
Fan Motor RLA	1.9
Fan Blade	51528-3
Fan Guard	70832
Shroud	70611-1
High Pressure switch	84095-2L
Low Pressure Control	84026-2
Dual Pressure Control	
Condenser	50785-4
Head Master Valve	70083
Check Valve	56626
Process Valve	
Liquid Valve	
Suction Valve	31529-2
Receiver	51084
Receiver Qty	1
Accumulator	TK00042000
Liquid Filter	52000-164D
Sight Glass	70084-2
Suction Filter	70822-5S
CrankCase Heater	14947869

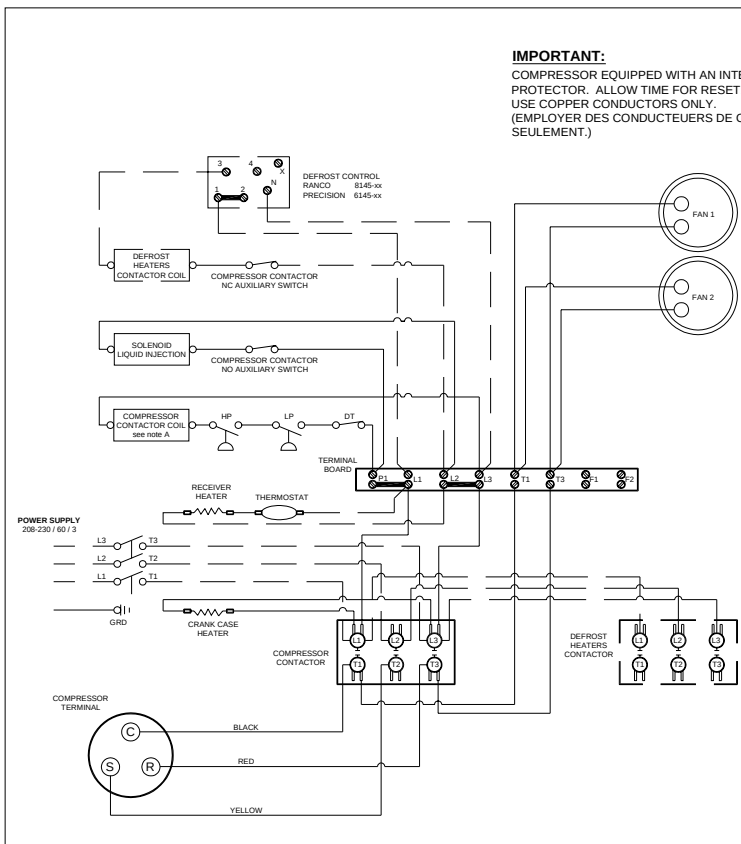
OPTIONAL

Adjustable Fan Ctrl (A)	LAFC-001
Defrost Timer (Tn)	LTCCG-T2
Receiver Heater (R)	LHR-223
Solenoid Valve (S)	KSVC-285
Disconnect (D)	KDSG-301

BOM INDEX DESCRIPTION

32xYYYY- 2ERA(F)TnDS

- E Enclosure
- R Receiver Heater
- A Adjustable fan control
- F Fixed fan Control
- T1 Defrost timer option
- T2 Defrost timer & Defrost Heaters Contactor
- D Disconnect
- S Solenoid liquid Valve (supplied loose)



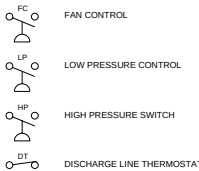
NOTES

FIELD WIRING NOTES

- ALL FIELD WIRING MUST BE DONE IN COMPLIANCE WITH ALL APPLICABLE LOCAL AND NATIONAL CODES.
- CONNECT INCOMING POWER LEADS FROM POWER SUPPLY TO L1, L2, AND L3 IN COMPRESSOR CONTACTOR OR TO L1, L2 AND L3 IN DISCONNECT SWITCH (IF PROVIDED). USE COPPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVRE SEULEMENT.) PROVIDE EQUIPMENT GROUNDING CONDUCTOR. USE 75°C (MIN.) WIRING.
- DEFROST HEATERS LOADS SHOULD NOT BE HIGHER THEN THE MAXIMUM HEATERS LOAD INDICATED ON THE UNIT LABEL. DEFROST HEATERS TO BE CONTROLLED WITH A CONTACTOR AS SHOWN ON THE DIAGRAM.

GENERAL NOTES:

- A. CONTACTOR COIL CIRCUIT IS FACTORY CONNECTED TO 230 V SOURCE IN PANEL AS SHOWN
B. COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET.



- FACTORY COMPONENTS
- - - - - OPTIONAL FACTORY COMPONENTS
— OPTIONAL FIELD COMPONENTS

CONDENSING UNIT WIRING, 230V 60Hz 3 Ph,
Liquid Injection Solenoid,
Fan control,
T1 & T2 defrost options

REL

REVISION

WD23-2XT2L